

OREGON STATE UNIVERSITY

POTATO UPDATE

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Hermiston Agricultural Research and Extension Center

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Insect Trap Report

Area Pest Alert Serving Umatilla & Morrow County

Traps are collected on Thursdays.

TRAP	PTW	BLH	OLH	PA	GPA	OA
1	3			0	1	0
2	0	65	7	0	0	1
3	0	0	2	0	2	1
4	0	3	33	0	0	0
5	0	1	5	0	0	0
6	0	0	5	0	0	0
7	0	0	9	0	0	3
8	0	0	8	0	0	0
9	0	0	8	0	1	1
10	0	0	3	0	0	1
11	1	0	2	0	0	2
12	0	0	9	2	0	0
13	2	1	3	0	0	0
14	0	1	6	1	0	0
15	0	0	1	0	0	0
16	0	0	0	0	0	1
17	1	2	0	0	0	2
18	0	0	7	0	0	0
19	0	-	-	0	0	0
20	0	0	0	0	0	0
21	0	0	0	0	0	0
22	0	0	0	0	0	0
23	0	0	0	0	0	0
24	0	0	1	0	0	0
25	0	0	0	0	0	0
26	0	0	0	0	0	0
27	0	0	1	1	0	1
28	0	1	6	13	1	17
29	0	0	0	0	0	0
30	0	0	4	0	0	0
31	0	0	17	0	0	0
32	0	3	0	0	0	0
33	0	1	7	0	0	0
34	15	0	2	0	0	0

PTW: Potato Tuberworm

BLH: Beet Leafhopper

OLH: Other Leafhopper

PA: Potato Aphids

GPA: Green Peach Aphid

OA: Other Aphid

From BLH yellow sticky cards located outside potato circles.

TRAP	PP	OP
1	0	3
2	0	183
3	0	8
4	0	4
5	0	44
6	0	6
7	0	12
8	0	1
9	0	15
10	0	2
11	0	1
12	0	3
13	0	12
14	0	15
15	0	2
16	0	1
17	0	2
18	0	1
19	Missing	Missing
20	0	0
21	0	1
22	0	0
23	0	2
24	0	0
25	0	0
26	0	0
27	0	5
28	0	50
29	0	1
30	0	15
31	0	0
32	0	2
33	0	0
34	0	0

PP: Potato Psyllid

OP: Other Psyllids

From DVAC (5-10 feet from the edge of the field; 5 minutes)*.

TRAP	PP	OP
1		
2	0	0
3		
4		
5	0	0
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16	0	0
17		
18		
19		
20		
21		
22		
23		
24	1	0
25		
26	0	0
27		
28	0	0
29		
30	0	0
31		
32		
33		
34	16	1

PP: Potato Psyllid

OP: Other Psyllids

* selected sites were

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More about Psyllids....Can high temperature limit potato psyllids?

Potato psyllids pass through three life stages: egg, nymph and adult. The optimal developmental temperature for nymphs is around 80°F; temperatures above 90°F are severely harmful to eggs; adult dispersal is eased by windy conditions and temperatures around 90°F. Thus, the question is: how the heat wave of this week (102°F by Sunday!!!) will affect psyllids and the bacteria? As ambient temperatures increase and humidity decreases psyllids will definitely be affected. Also, temperature has been shown to have a significant effect on development of liberibacter species. Results indicated that temperatures below 63°F appear to slow development of liberibacter and ZC symptoms, whereas temperatures above 90°F are detrimental (almost lethal) to the bacteria. More information:

http://www.apsnet.org/publications/plantdisease/2012/January/Pages/96_1_18.aspx

If you attended our OSU Potato Field Day you received a copy of our latest publication. For more copies visit: <http://ir.library.oregonstate.edu/xmlui/bitstream/handle/1957/30058/pnw633.pdf>

PNW 633, Potato Psyllid Vector of Zebra Chip Disease in the Pacific Northwest: Biology, Ecology, and Management

Authors: Silvia Rondon, Alan Schreiber, Andrew Jensen, Philip Hamm, Joseph Munyaneza, Phillip Nolte, Nora Olsen, Erik Wenninger, Don Henne, Carrie Wohleb, and Tim Waters

June 2012, 8 pages, \$5.00

Silvia Rondon.....Extension Entomologist. OSU-HAREC-IAEP

HAREC Plant Pathology Lab Potato Disease Update

With increasing temperatures, plants with black leg, white mold, Rhizoctonia canker, toxic seed piece syndrome and other stem/seed rot diseases will be developing in the field. Verticillium wilt also will be starting to show. Plants with Verticillium wilt will have a more upright growth appearance, wilting leaves and secondary vines, and a will be more yellow in color. No late blight has been reported in the Columbia Basin so far this year.

For more information on disease diagnostic services at HAREC, please call 541-567-8321.....*Jordan Eggers*, HAREC Plant Pathology Lab Manager